	Application No.	Applicant(s)
Notice of Allowability	10/810,492	HORIUCHI ET AL.
	Examiner	Art Unit
	Cook TRINII	2040
	Sonny TRINH	2618
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included new will be mailed in due course. THIS
1. This communication is responsive to <u>application filed 03/26/04</u> .		
2. The allowed claim(s) is/are <u>1-35</u> .		
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).		
a) ☑ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No.		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Da 8), 7. ☐ Examiner's Amendi	te ment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	

Art Unit: 2618

Allowable Subject Matter

1. Claims 1-35 are allowed.

The following is an examiner's statement of reasons for allowance:

The present invention relates to a high-frequency module and a radio communication apparatus. More particularly, the present invention relates to a high-frequency module which is suitable for a multi-band mobile radio terminal and on which there are mounted power amplifiers, switch circuits, a diplexer, directional couplers, an auto power controller and the like, and also to a radio communication apparatus having such a high-frequency module mounted thereon.

The instant application is directed to an non-obvious improvement over the invention described in Pat. No. 6,683,512 to Nakamata et al. The improvement resides in a diplexer connected to the antenna terminal for branching a plurality of transmission/reception systems different in pass band from one another; switch circuits connected to the diplexer for switching the transmission/reception systems to transmission systems and reception systems; power amplifiers connected to the switch circuits for amplifying transmission signals in the pass bands of the transmission systems; and matching circuits for matching the impedances of the power amplifiers to one another, the power amplifiers and the switch circuits respectively being formed by high-frequency semiconductor integrated circuit elements, and these high-frequency

Art Unit: 2618

semiconductor integrated circuit elements being mounted on the surface of the multilayer substrate.

Claims 2-35 are allowed by virtue of their dependency on claim 1.

Conclusion

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sonny TRINH whose telephone number is 571-272-7927. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward URBAN can be reached on 571-272-7899. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/810,492

Art Unit: 2618

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Page 4

7/15/06